CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER: 20-922

MICROBIOLOGY REVIEW(S)

>1-1-520/1S/

REVIEW FOR HFD-540 OFFICE OF NEW DRUG CHEMISTRY MICROBIOLOGY STAFF MICROBIOLOGIST'S REVIEW #1 OF NDA 20-922 10 April 1998

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APPLICANT:

Bristol-Myers Squibb Pharmaceuticals

100 Forest Avenue

Buffalo, NY 14213-1091

- 2. PRODUCT NAMES: 4-Hydroxyanisole and All-Trans Retinoic Acid
- 3. DOSAGE FORM AND ROUTE OF ADMINISTRATION: The product is a topical solution.
- 4. METHODS OF STERILIZATION:
 The product is not a sterile product but, is subject to microbial limits specifications.
- 5. PHARMACOLOGICAL CATEGORY and/or PRINCIPLE INDICATION:

 The product is indicated for use in treatment of solar lentigines resulting from chronic solar exposure.
- B. 1. DATE OF INITIAL SUBMISSION: 30 December 1997
 - 2. DATE OF AMENDMENT: (none)
 - 3. RELATED DOCUMENTS: DMF DMF IND
 - 4. ASSIGNED FOR REVIEW: 2 February 1998

REMARKS: The application provides for the manufacture of the product at either of following two sites:

Bristol-Myers Squibb Technical Operations Westwood-Squibb Pharmaceuticals, Inc. 100 Forest Avenue Buffalo, NY 14213

Bristol-Myers Squibb, NDA 20-922, Depigmenting Solution, Microbiologist's Review #1

or

Squibb Manufacturing
State Road #3, KM 77.5
Humacao, Puerto Rico 00792

D. CONCLUSIONS:

The application is approvable pending resolution

of Microbiology concerns.

cc: Original NDA 20-922

HFD-540/W. Timmer/F. Cross HFD-805/Consult File/Stinavage

Drafted by: P. Stinavage, 10 April 1998

R/D initialed by P. Cooney

APPEARS THIS WAY ON ORIGINAL

HFC-540 /5/

REVIEW FOR HFD-540 OFFICE OF NEW DRUG CHEMISTRY MICROBIOLOGY STAFF MICROBIOLOGIST'S REVIEW #2 OF NDA 20-922 9 July 1998

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APPLICANT:

Bristol-Myers Squibb Pharmaceuticals

100 Forest Avenue

Buffalo, NY 14213-1091

- 2. PRODUCT NAMES: 4-Hydroxyanisole and All-Trans Retinoic Acid
- 3. DOSAGE FORM AND ROUTE OF ADMINISTRATION: The product is a topical solution.
- 4. METHODS OF STERILIZATION: The product is not a sterile product but, is subject to microbial limits specifications.
- 5. PHARMACOLOGICAL CATEGORY and/or PRINCIPLE **INDICATION:** The product is indicated for use in treatment of solar lentigines resulting from chronic solar exposure. B. 1. DATE OF INITIAL SUBMISSION: 30 December 1997 2. DATE OF AMENDMENT: 16 June 1998 (Subject of this Review) 3. RELATED DOCUMENTS: DMF DMH DMF(4. ASSIGNED FOR REVIEW: 6 July 1998

The application provides for the manufacture of the **REMARKS:** product at either of following two sites:

> Bristol-Myers Squibb Technical Operations Westwood-Squibb Pharmaceuticals, Inc. 100 Forest Avenue Buffalo, NY 14213

Bristol-Myers Squibb, NDA 20-922, Depigmenting Solution, Microbiologist's Review #2

or

Squibb Manufacturing State Road #3, KM 77.5 Humacao, Puerto Rico 00792

D. CONCLUSIONS:

The application is recommended for approval on the basis of the microbial quality of the product.

/S/ 9 July 1998
Paul Stinavage, Ph.D. 7 15 98

cc:

Original NDA 20-922 HFD-540/W. Timmer/F. Cross HFD-805/Consult File/Stinavage

Drafted by: P. Stinavage, 9 July 1998 R/D initialed by P. Cooney

APPEARS THIS WAY ON ORIGINAL